

# AAI CORPORATION

**Company Address:** AAI Corporation,  
**Company SPI/POC:** William F. Wehland, Manager of Contracts  
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**AAI Quality System:** Replaces existing MIL-I-45208A and MIL-Q-9858 Government Quality System Requirements with approved ANSI/ASQC-9001 Quality System - Model for Quality Assurance in Design/Development, Production, Installation and Servicing. (SPI modification completed)

**Printed Wiring Assemblies:** Replaces MIL-P-55110, "General Specification for Rigid Printed Wiring Board - QPL Certification" with MIL-PRF-31032, "General Specification for Printed Circuit Board/Printed Wiring Board - QML Certification" which allows AAI to implement commercial practices to the maximum extent possible. (SPI modification completed)

**Soldering Requirements:** Replaces MIL-STD-454, MIL-STD-2000 and customer tailored MIL-STD-2000 soldering requirements with the requirements of industry standard ANSI/J-STD-001. (SPI modification completed)

**Nonconforming Material:** Replaces MIL-STD-1520, "Corrective Action & Disposition System for Nonconforming Material," with specific AAI procedures contained within our ISO-9001 Quality Manual. (SPI modification completed)

**Single Configuration Management System:** To implement a single configuration management system in accordance with ANSI/ISO/ASQC Q10007-1995 within contractor's approved ISO-9001 Configuration Management System in lieu of MIL-STD-973. (proposed)

**Engineering Drawing Practices:** Replace current and future requirements for "Engineering Drawing Practices" of DOD-STD-100C, DOD-STD-100D(AR) and MIL-STD-100E with AAI's approved ISO-9001 Engineering Procedures and Drawing Practices and Design Guidelines Handbook. (proposed)

**Technical Reviews:** To implement a single process for Technical Reviews and Audits for Systems, Equipments and Computer Software in accordance with ANSI/ISO/ASQC Q-10007-95 in lieu of MIL-STD-1521. Savings could be achieved if Government participation in formal review activities were reduced or eliminated. (concept not accepted by buying commands)

**DD Form 250:** Eliminate the DD Form 250 - Material Inspection and Receiving Report and utilize AAI's commercial shipping document/packing list and commercial invoice form. (concept not accepted by customers)

**Software Practices:** To implement a single process for Software Development and Software Quality Assurance in accordance with the Software Engineering Institute's Capability Maturity Model based AAI Software Development Process. The AAI Software Development Process will be utilized in lieu of DOD-STD-2167(A), DOD-STD-2168, MIL-STD-498, MIL-STD-1644(B) and MIL-S-52799. (proposed)

**Preferred Supplier Program:** To replace canceled MIL-STD-1535B Supplier Quality Assurance Requirements with AAI's Preferred Supplier Program which rates and selects high quality suppliers for acquisition needs. (proposed)

**Calibration System Requirements:** To replace canceled MIL-STD-45662, Calibration System Requirements with ISO-10012-2, Quality Assurance Requirements for Measuring Equipment. (proposed)

**Direct Voucher Submission:** To allow direct voucher submission to DFAS, Columbus, without initial approval by DCAA based upon AAI's approved billing system pursuant to DFARS 242.803(b)(i)(c). (proposed)

## **AIL SYSTEMS, INC.**

**Company Address:** AIL Systems, Inc.,  
**Company SPI/POC:** Ronald Vogt, SPI Manager  
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e-mail: rvogt@ail.com

**Quality System** ISO 9001:1994 “Quality Systems - Model for Quality Assurance in Design, Development, Production, Installation and Servicing” replaced MIL-Q-9858A “Quality Program Requirements” and MIL-I-45208A “Inspection System Requirements”. AIL Systems has been an ISO 9001 registered firm since October 15, 1993. Block change modification was approved on May 29, 1996. The benefit is to have a single Quality Management System on facility-wide basis.

**Calibration System** ANSI/NCSL Z540-1-1994 “Calibration Laboratories and Test Equipment - General Requirements” replaced MIL-STD-45662A “Calibration System Requirements”. MIL-STD-45662A was canceled on February 27, 1995. Notice 1, issued January 20, 1995 recommended ANSI/NCSL Z540-1 as an alternative. Block change modification was approved on May 29, 1996. The benefit is to have a single Calibration System on a facility-wide basis.

## **ALLIED SIGNAL INC. (AIRCRAFT LANDING SYSTEMS)**

**Company Address:** AlliedSignal Inc., Aircraft Landing Systems (ALS)  
3520 Westmoor St., South Bend, IN Street 46628-1373

**Company SPI/POC:** Otis Byrd, Contracts  
Phone/FAX: (219) 231-2202/-  
e-mail:

**Quality Assurance Requirements:** The contractor recommended the replacement of the following Government-unique requirements with the contractor's approved ISO 9001 Quality System:

- (1). MIL-Q-9858A, Quality Program Requirements
- (2). MIL-I-45208A, Inspection System Requirements
- (3). MIL-STD-1535, Supplier Quality Assurance Program Requirements
- (4). FAR 52.246-11, Higher Level Contract Quality Requirement
- (5). Defense Supply Center Philadelphia Quality Assurance Provision (QAP) 00450, (Sampling Inspection Requirements)
- (6). Defense Supply Center Philadelphia QAP 00507, (Certificate of Quality Compliance)
- (7). Defense Supply Center Philadelphia QAP 01075, (Government Product Verification Testing Program and requirements for contractor supplied Certificate of Quality Compliance)

The contractor's proposal (as adjusted) was incorporated through a Block Change modification on December 12, 1996.

### **CAO POC:**

Ed Nellans, Administrative Contracting Officer, DCMDE-GIXOB  
244 South Olive, South Bend, IN 46619-2198

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## **ALLISON ENGINE CO. INC.**

**Company Address:** Allison Engine Company, P.O. Box 420, Indianapolis, IN 46241-0420

**Company SPI/POC:** Dale K. Gordon, Quality Assurance Manager, Speed Code P04  
Phone/FAX: 317-230-3592/-3145  
E-Mail: IEDKG@AGT.GMEDS.COM

**Termination for Convenience:** Use FAR 52.212-4(1) for settling Termination for Convenience claims in lieu of standard FAR clause. A Block Change modification was issued for commercial item contracts only on August 1, 1996. The contractor has requested a FAR waiver/deviation to allow incorporation of the proposed process in military supply item contracts. DCMC Indianapolis-Allison has reviewed the revised request for adequacy. It was forwarded to DCMC on October 4, 1996, in accordance with AQO letter, dated April 19, 1996, Subject: Single Process Initiative, Statutory Changes or Regulatory Deviations.

**ISO 9000 Certification /Audit:** The contractor proposed that the Government recognize the 3rd party audit, provided the audit methodology was acceptable. This data as well as information obtained from internal audits would constitute the CAO review and approval process of the contractor's Quality System. The contractor also proposed the participation of the Government approved audit team in the initial review as well. The contractor's proposed concept paper was approved and incorporated via block change modification on 8/1/96.

**Sampling Plans:** The contractor proposed the replacement of MIL-E-8970 and MIL-E-8596 with the contractor's approved ISO 9001 system. The contractor also requested the replacement of MIL-STD-105 and MIL-STD-414 with ANSI Z1.4. The contractor's proposed concept paper was approved and incorporated via block change modification on 12/3/96.

**Process Control Requirements:** The contractor proposed the replacement of MIL-STD-1529 with the contractor's own internal specification procedure utilized on commercial processes. The contractor's proposed concept paper was approved and incorporated via block change modification on 12/3/96.

**Calibration Systems Requirements:** The contractor proposed the replacement of MIL-STD-45662A with the contractor's approved ISO 9001, since the calibration portion of the contractor's system complies with ISO 10012. The contractor's proposed concept paper was approved and incorporated via block change modification on 12/3/96.

**Non-Destructive Testing System Requirements:** The contractor proposed the replacement of MIL-I-6870 and MIL-STD-410 with commercial industry standard ANST TC-1A. The contractor's proposed concept paper was approved and incorporated via block change modification on 12/3/96.

**Quality Management Systems:** The contractor proposed the replacement of the following Government-unique Quality Assurance requirements: MIL-Q-9858A, MIL-I-45208A, MIL-STD-1535, MIL-STD-1520, and MIL-STD-980. The contractor proposed the replacement of the above requirements with the contractor's approved ISO 9001 system which has been approved and is currently being utilized on a facility-wide basis. The contractor's proposal was accepted and incorporated through a block change modification on January 16, 1997.

**CAO POCs :**

P. Steelman (Administrative)  
DCMC Indianapolis - Allison Engine  
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J. Kappus (Technical)  
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## **ALLISON TRANSMISSION DIV. OF GMC**

**Company Address:** Allison Transmission Division of GMC, 4700 W. 10th Street  
P. O. Box 894, Indianapolis, IN 46206-0894  
**Company SPI/POC:** D. E. Spikes, Military Pricing Administrator  
Phone/FAX: (317) 242-6604/-2410  
Email: david\_e.\_spikes@notes.atd.gmeds.com

**Nonconforming Material - Material Review Board (MRB):** Replace MRB requirements with current company commercial procedures. The contractor's proposal was approved and incorporated via contract modification on 8/27/96.

**CAO POC:**

Ron Martin  
Administrative Contracting Officer  
DCMC Indianapolis  
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8899E. 56th St.  
Indianapolis, IN 46249-5701  
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## **AM GENERAL CORPORATION**

**Company Address:** AM General Corp., 105 North Niles Ave.  
South Bend, IN 46634-7025  
**Company SPI/POC:** John M. Camblin, Director, Contract Management  
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email:

**Extended Service Program (ESP) Engine Paint** Replaces the engine color requirement (2 1/2 and 5 ton truck) from ATP-2174A (Paragraph 3.10.5) "...any dark color that is lusterless" with the standard commercial engine color (yellow). Concept paper approved and incorporated via modification 10/29/96.

**CAO POC :**  
Dreama Schmidt  
Administrative Contracting Officer  
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# BOEING DEFENSE & SPACE GROUP

**Company Address:** Boeing Defense & Space Group, Seattle, WA

**Company SPI/POC:** R. A. Liechty  
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**Boeing Quality System:** Converts the Quality requirements from the use of a suite of Specs and Stds (MIL-Q-9858 “Quality Program Requirements” and related others) to exclusive use of the Boeing Quality System. The Boeing Quality System is based on the criteria of ISO 9000 with the appropriate level of the standard utilized at the different Boeing facilities nationwide.

**Substitution Document:** Allows parts, materials and process changes to be made at the highest drawing level through use of a “Substitution Document”. Once implemented, changes to lower tier drawings would not be required. This document will not affect program unique substitution documents.

**Parts Control for Electronic Equipment:** Replaces the requirement to implement parts control using MIL-STD-965B with a single internal Boeing process. Approach utilizes Boeing Commercial Airplane Group parts control practices for a uniform approach for The Boeing Company.

**Manufacture of Rigid Printed Wiring Boards:** Replaces the requirement for producing military printed wiring boards to MIL-P-55110. Involves a single manufacturing process for producing printed wiring boards based on best commercial practices.

**Printed Wiring Assemblies:** Replaces multiple military specifications for soldering of electronics with a set of solder process and hardware requirements based on industry standard ANSI/J-STD-001.

**Defense Finance and Accounting Service (DFAS) Direct Voucher Submission:** Allows direct voucher submission to DFAS without approval by the Defense Contract Audit Agency (DCAA). Process conversion is based on DCAA recognition of the adequacy of Boeing Financial/Accounting systems for producing vouchers to their criteria (does not include first and final vouchers).

## **BOEING DEFENSE & SPACE GROUP, HELICOPTERS DIV.**

**Company Address:** Boeing Defense & Space Group, Helicopters Division,  
P.O. Box 16858, Philadelphia, PA 19142-0858

**Company SPI/POC:**  
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e-mail: @boeing.com

**Printed Wiring Boards:** Converts 4 internal specs and MIL-P-55110 requirements to a single process.

**Common Soldering:** Standardizes military and commercial approach to soldering using ANSI/J-STD-001 (soldering standard) to obtain common process.

**Parts Control:** Involves several initiatives - preferred parts list, subcontractor parts management, parts control board plan, obsolescence plan and derating guides in anticipation of Mil Spec changes/cancellations.

**Substitution Document:** Allows changes to drawings to be made at the top level drawing only; presently all drawings must be changed.

**Direct Billing:** Allows contract auditors to authorize direct submission of interim vouchers to disbursing offices upon approval of the contractor's billing system.

Three additional concept papers listed below, all involve disposition of Government Property and were received as full-up concept papers on February 4, 1997.

**Property Disposition (Excluding Special Tooling):** Proposes limiting the plant clearance process, including reutilization screening, and disposition of Government property with an extended line item value of \$1500 or less, through best commercial practices.

**Property Disposition (Special Tooling):** Proposes the elimination of the plant clearance process, using limited reutilization screening, and disposition of Government owned special tooling in accordance with either the approved scrap procedure or using best commercial practices.

**Disposition of ADPE:** Proposes the elimination of the process of screening Automatic Data Processing Equipment (ADPE) through Defense Automation Resources Information Center for both acquisition and disposition of ADPE.

**SRR, PDR and CDR Streamlining:** Proposes to streamline the SRR, PDR and CDR processes and procedures to eliminate items which may be non-value added. These may include the 60 day prior to event data submittals, formal chit documentation and close tolerance requirements on gate passage.

## **EFW INC.**

**Company Address:** EFW Inc., Fort Worth, TX  
**Company SPI/POC:** Jim L. Howard  
Phone/FAX: (817) 234-6901/-6768  
e-mail: howard@efw.com

**Quality System:** Changes the quality requirements from MIL-Q-9858, MIL-I-45208, MIL-STD-1520, MIL-STD-1535, and MIL-STD-45662 to the EFW Inc. Quality System which is based on and certified as meeting ISO 9001. These changes were agreed to and all contracts with the US Government were changed on 31 October 1996.

**Soldering:** Changes the soldering requirements from MIL-STD-454 and MIL-STD-2000A to an EFW Inc. process based on the requirements of ANSI/J-STD-001. This concept paper is being drafted and will be submitted in early December 1996.

## **HUGHES AIRCRAFT COMPANY - RADAR & COMMUNICATIONS SYSTEMS**

**Company Address:** Hughes Radar & Communications Systems (RCS), El Segundo, CA  
**Company SPI/POC:** Lowell E. Benjamin, HAC/RCS SPI Manager  
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e-mail: lebenjamin@ccgate.hac.com

**HAC/RCS Quality System:** The contractor's ANSI/ASQC Q9001 Quality System/Program replaced the military based system under MIL-Q-9858A Quality Program Requirements, MIL-STD-1520 Corrective Action and Disposition for Nonconforming Material, and MIL-STD-1535 Supplier Quality Assurance Program Requirements.

## **HUGHES DANBURY OPTICAL SYSTEMS, INC. (HDOS)**

**Company Address:** Hughes Danbury Optical Systems, Inc. (HDOS), Danbury, CT  
**Company SPI/POC:** Gerry Zimmerman, HDOS Director Of Quality  
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**HDOS Quality System:** Converts the quality requirements from the use of a myriad of military and NASA Specs and Standards (i.e., MIL-Q, Quality Program Requirements, MIL-I, Quality Inspection Program, NHB-5300, NASA Quality Program Requirements, etc.) to a single quality management system based upon the ISO 9001 Quality System Model for use in design, development, production, installation and servicing. The HDOS Quality Management System is a single process initiative, which can be tailored to fit the needs of each program type, such as deliverable or non-deliverable conceptual, breadboard, dem-val, flight, production or test hardware/software/equipment.

# HUGHES DEFENSE COMMUNICATIONS

(Formerly Magnavox Electronics Systems Co.)

**Company Address:** Hughes Defense Communications, 1010 Production Road  
Fort Wayne, IN 46808-1164

**Company SPI/POC:** Al Burke, Director of Program and Product Assurance  
Phone/FAX: (219) 429-5137/-5226  
E-Mail: agburk@most.fw.hac.com

**Calibration Systems Requirements** The contractor proposed replacing MIL-STD-45662A (Calibration Systems Requirements) with ANSI/NCSL Z540-1-1994 (Calibration Laboratories and Measuring and Test Equipment - General Requirements). DSIC guidance had canceled MIL-STD-45662A and had indicated that future acquisitions should refer to ANSI/NCSL Z540-1, ISO 10012-1, or a comparable standard. The contractor's (at that time Magnavox) proposed concept paper was approved and incorporated via block change modification 7/3/96.

**Electrostatic Discharge Control Program** The contractor proposed replacing MIL-STD-1686 (Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment) with JEDC JESD42 (Requirements for Handling Electrostatic-Discharge-Sensitive Devices) as well as Magnavox internal processes. DSIC had issued guidance to convert to a standard practice not later than December 1995 for future procurements. The contractor's (at that time Magnavox) proposed concept paper was approved and incorporated via block change modification 7/3/96.

**CAO POC :** Hollis K. Friedrich  
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# HUGHES ELECTRO-OPTICAL SYSTEMS (EOS)

**Company Address:** Hughes Electro-Optics Systems (EOS)

**Company SPI/POC:** Susan Higgins, EOS SPI Manager  
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**Hughes EOS Quality System:** Encompasses shifting the current Manufacturing and Material Quality system which utilizes several Specifications and Standards (Mil-Q-9858 “Quality Program Requirements” and related others) to an ANSI/ISO/ASQC Q9000–1- based common processes system.

**Simplification of Property Administration:** Implements a Property Management Process that simplifies both contractor and Government property administration, updates practices consistent with the latest Acquisition Reform-based concepts, and uses contractor self-governance and the ISO 9000-based Quality System to assure Property System compliance to Government requirements. The property management process features include: Asset Planning and Acquisition; Asset Management and Control; Asset Storage, Redeployment and Disposition; and Management of Systems, Property at Suppliers, Contract Support, and Surveillance.

**Conversion of Parts Management:** A Parts Control Procedure (PCP) has replaced existing Government standards. This procedure establishes the roles of the Integrated Product Team (IPT) and Integrated Supply Management Team (ISMT), and their required interfaces, to assure a standardized and cost-effective EOS process. The IPT and ISMT provide technical support in the selection of parts during both the design and modification of existing designs processes. These two teams assure standardization of electronics, electrical, mechanical and electromechanical parts incorporated into current future designs, and production of equipment or systems. Specific contracts may require unique parts control requirements over and above the EOS Parts Control Procedure. In these cases it is the responsibility of the Program IPT to create their own Parts Control Plan and detail how to intergrate it into the generic EOS PCP. Also, the ISMT will provide the Preferred Parts and Preferred Supplier lists (PP/SL) to the IPT’s according to “Parts Approval Process” (IPD-E-4-0.5) and “Supplier Certification (EM-M-1-1).

**Common Calibration:** Replaces Mil-Std-45662 “Calibration Systems Requirements” with ANSI/NCSL Z540-1-1994 “Calibration Laboratories and Measuring and Test Equipment-General Requirements.” The ANSI system allows the contractor more flexibility in implementing accuracy controls based upon customer requirements and specific job needs. This cost-effective and mission-focused method for assuring quality and accuracy of the measurement and test processes, maintains all compliance elements of the Military Standard.

# HUGHES MISSILE SYSTEMS COMPANY (HMSC)

**Company Address:** Hughes Missile Systems Company (HMSC), Tucson, AZ  
**Company SPI/POC:** Robert J. Bedell, HMSC Acquisition Reform Program Manager  
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e-mail: rjbedell@ccgate.hac.com

**Hybrid Microelectronics Assembly:** Converts requirements for assembly of hybrid microelectronics to MIL-PRF-38534 as the standard for hybrid production.

**Solder Assembly:** Converts solder and electronics assembly requirements from MIL-STD-2000 and -2000A and multiple program specific requirements to ANSI/J-STD-001.

**Hazardous Materials Management Program:** Establishes a common process within HMSC for the management of hazardous materials using NAS 411.

**Common Electrical Component Testing:** Implements a common electrical component testing process for all programs with appropriate test levels determined by historical data and current test results.

**Parts Control:** Converts parts control from the requirements of MIL-STD-963 to a contractor Parts and Materials Control Program.

**Calibration:** Converts calibration requirements from MIL-STD-45662A to ANSI/NCSL Z540-1.

**Quality System:** Replaces the Quality System based on MIL-Q-9858A and other military specifications and standards with one based on ANSI/ASQC Q9001, ANSI/ASQC Z1.4 and ANSI/IPC-PC-90.

**Stainless Steel Passivation:** Establishes a common process for the passivation of corrosion-resistant (stainless) steels by replacing QQ-P-35 and MIL-STD-186 with ASTM A 380.

**PWB Fabrication:** Replaces Printed Wiring Board Fabrication requirements of MIL-P-5510 with IPC-RB-276.

**Military Specifications and Standards:** Permits using the latest revision of military specifications and standards regardless of the revision cited in contracts.

**Test Equipment Certification:** Standardizes test equipment prove-in process for all programs.

**Factory Test Reduction:** Eliminates the requirements for 100% testing where data indicates that such testing is redundant or unnecessary.

**Software Development:** Replaces numerous military standards with ISO/IEC 12207

**Configuration Management:** Implements electronic delivery of data, standardizes contractor integrated technical information services, establishes common drawing format, and standardizes requirements for accomplishing configuration management tasks.

# HUGHES SPACE AND COMMUNICATIONS COMPANY

**Company Address:** Hughes Space & Communications Systems (HSC)

**Company SPI/POC:** Melinda Kingery, HSC SPI Manager  
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**HSC Quality Management System:** The contractor's ANSI/ASQC 9001 Quality System/Program replaced the military based system under MIL-Q-9858A Quality Program Requirements, MIL-STD-1520 Corrective Action and Disposition for Nonconforming Material, and MIL-STD-1535 Supplier Quality Assurance Program Requirements.



## ITT AEROSPACE/COMMUNICATIONS DIVISION (ACD)

**Company Address:** ITT Aerospace/Communications Division  
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**Company SPI/POC:** J. J. Vogt  
Vice President and Director, Contract Administration  
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E-Mail: jjvogt@itt.com

**Quality Assurance Requirements:** The contractor proposed the replacement of applicable contractual Quality Assurance Requirements ( MIL-Q-9858A, NASA Higher Level Quality Assurance Requirement, et al ) with ISO9001. The Block Change modification incorporating the change into all contracts (less NASA) was signed on August 21, 1996.

**No-Clean Flux Soldering Process:** The contractor recommended the replacement of all (various) Government requirements for the removal of soldering flux on numerous circuit assemblies utilized in various programs, contracts, and subcontracts. The contractor proposes replacing the current requirements with their latest commercial procedure (No-clean Flux Soldering Process), currently being approved and implemented by the contractor. It should be noted that intangible benefit from the adoption of this proposal will be a sizable reduction in the amount of pollutants (air-borne and liquid) and hazardous chemicals that are used in the current process. The block change modification incorporating the contractor's proposed change was executed on December 17, 1996

**Replacement of MIL-STD-1535 with Commercial Procedures:** The contractor requested the replacement of MIL-STD- 1535, Supplier Quality Assurance Program Requirements, in three NSA prime contracts and one subcontract. The contractor proposed replacing the Government-unique requirement in that the required procedure is already effectively satisfied through the contractor's approved and registered ISO9001 Quality System. A Block Change modification incorporating the change was signed on January 16, 1997.

**Replacement of MIL-STD-1520 with Commercial Procedures:** The contractor requested the replacement of MIL-STD- 1520, Supplier Quality Assurance Program Requirements, in three NSA prime contracts and one subcontract. The contractor proposed replacing the Government-unique requirements with the revised procedures currently approved for DoD contracts, which are more closely aligned with the contractor's commercial practices. A Block Change modification incorporating the change was signed on January 16, 1997.

**Replace Certified Supplier Program with Commercial Procedures:** The contractor requested replacement of the Government-unique “Certified Supplier Program”, required in three NSA prime contracts. The contractor proposed replacing the Government-unique requirements with their commercial procedure (Dock-To-Stock”), currently approved for DoD contracts. The Block Change modification incorporating the change was signed on January 16, 1997.

**CAO POC:**

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## LOCKHEED MARTIN AERONUTRONIC

**Company Address:** Lockheed Martin Aeronutronic (LMA)

**Company SPI/POC:** John Carter, LMA SPI Manager  
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e-mail: john.w.carter@lmco.com

**LMA Quality System:** Converts LMA Quality system requirements from MIL-STD 9858A (including MIL-I 45208, MIL-STD 1520C and MIL-STD 1535) to meet the criteria of ISO 9001. In addition, the requirements of MIL-STD 45662 (Calibration) were converted to ISO 10012-1 criteria.

## LOCKHEED MARTIN ASTRONAUTICS

**Company Address:** Lockheed Martin Astronautics,  
Mission Success and Product Assurance

**Company SPI/POC:** Arthur L. Major, P.E., Director, Systems Effectiveness  
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**Lockheed Martin Astronautics Product Integrity Reporting System:** Converts the Nonconformance System requirements from the use of multiple MIL-STD-1520 based nonconformance systems to a single, electronic, internal procedure driven system. System features Program and Site profileable data collection fields and processing flows and Graphic User Interface.

**Lockheed Martin Astronautics Quality System:** Replaces MIL-Q-9858, MIL-STD-1586, MIL-STD-45208, and NHB 5300.4 with LMA's ISO 9001 based internal Quality System. The Quality System is implemented through the LMA Policies, Practices, and Procedures and is outlined by the LMA Product Delivery System Manual.

**Lockheed Martin Astronautics Supplier Quality System:** Replaces MIL-STD-1535 with LMA's ISO 9001 based internal Quality System. The Quality System is implemented through the LMA Policies, Practices, and Procedures and is outlined by the LMA Product Delivery System Manual. This system recognized ISO 9000 third party registration of our suppliers as evidence of acceptable Quality system.

**Lockheed Martin Astronautics Test Program:** Replaces MIL-STD-1540 with internal LMA test procedures and practices. Features a minimum test baseline for assurance of mission success, with the ability to tailor up to individual program needs. Will not effect existing programs unless tailoring is requested by the programs.

**Lockheed Martin Astronautics Maintainability Program:** Replaces MIL-STD-470 with internal LMA procedures and practices. Requires assessment of maintainability requirements as an integral part of the Systems Engineering process. Maintainability program will be implemented in accordance with assessment and/or program requirements. Does not effect existing program requirements.

**Lockheed Martin Astronautics Work Breakdown Structure:** Replaces MIL-STD-881 with internal LMA procedure. Requires WBS to be constructed per RFP requirements, or in the absence of such a requirement, in accordance with procedure.

**Lockheed Martin Astronautics Work Measurement System:** Replaces MIL-1567 with internal work and performance measurement methods already in use at LMA. Permits the use of engineered/estimated standards.

**Lockheed Martin Astronautics Systems Security Program:** Replaces MIL-1785 with internal LMA procedures and practices. Requires assessment of security requirements as an integral part of the Systems Engineering Process. Systems security program will be implemented in accordance with assessment and/or program requirements. Does not effect existing program requirements implemented in accordance with assessment and/or program requirements. Does not effect existing program requirements.

## **LOCKHEED MARTIN ELECTRONIC & MISSILES**

**Company Address:** Lockheed Martin E&M (LME&M)

**Company SPI/POC:** James A. Borders, LME&M SPI Point of Contact  
Phone/FAX: (407) 356-3369/-7199  
e-mail: james.a.borders@lmco.com

**Quality System:** Contractor's ISO 9001 Quality System/Program replaces Quality requirements from multiple Specs & Stds (MIL-Q-9858 and other related documents).

**Specification Preparation:** Program specifications will be prepared in contractor format for each program that has MIL-STD-490 and/or MIL-STD-83490 identified in the contract.

**Configuration Audits:** Authorizes performance of Configuration Audits and Design Reviews in contractor format replacing MIL-STD-1521 and/or AR-70-37.

**Technical Data Packages:** Contractor's internal system for technical documentation replaces multiple MIL-Specs/Stds.

**Calibration System:** Electronics & Missiles Quality System in accordance with ISO 9001 and ISO 10012-1 replaces MIL-STD-45662, MIL-STD-45662(A) and ANSI/NCSL Z540-1.

# LOCKHEED MARTIN FAIRCHILD DEFENSE SYSTEMS

**Company Address:** Lockheed Martin Fairchild Defense Systems, Yonkers, NY

**Company SPI/POC:** L.E. Rovenstine  
Phone/FAX: (914) 964-2675/-2777  
e-mail: loy.rovenstine@lmco.com

**Software Development:** Permits the use of a single Software Quality Program plan and a single Software Development plan for all contracts by using MIL-STD-498 in place of DoD-STD-2167 and DoD-STD-2168. Also modifies CDRL to allow magnetic media to contractor format using Computer Assisted Software Engineering (CASE) tools for data delivery.

# **LOCKHEED MARTIN OCEAN RADAR & SENSOR SYSTEMS**

**Company Address:** Lockheed Martin Ocean Radar & Sensor Systems (LMOR&SS)

**Company SPI/POC:** W. O. Pillar

Phone/FAX: (315) 456-1661/-0341

e-mail: pillarw@syr.lmco.com

**OR&SS Quality System:** The OR&SS ISO 9001 Quality System/Program replaces MIL-Q-9858A, MIL-I-45208, MIL-STD-45662A, and MIL-STD-1520. The primary changes involve changes to management responsibility, design control and repair, and rework of non-conforming material.

**Parts Standardization:** The OR&SS process for parts selection, parts control, and parts documentation as detailed in the OR&SS “Parts Standardization Plan” replaces MIL-STD-965, applicable parts of MIL-STD-100, and MIL-STD-454 (including parts requirement standards).

**Soldering Process:** The OR&SS process for soldering electrical and electronic assemblies in conformance with commercial standard ANSI/J-STD-001A, Class 3, with specific interpretations described in an OR&SS drawing replaces MIL-STD-454, MIL-STD-2000 & 2000A, MIL-C-28809B, MIL-S-45743C, and MIL-P-46843C (MI).

# MOTOROLA SPACE AND SYSTEMS TECHNOLOGY GROUP

**Company Address:** Motorola Space and Systems Technology Group, Scottsdale, AZ

**Company SPI/POC:** John D. Sentz, Motorola SSTG SPI Manager  
Phone/FAX: (602) 441-4232/-2919  
e-mail: PO3185@email.mot.com

**ISO 9001:** Converts the quality requirements from various specifications (MIL-Q-9858, etc.) to ISO 9001. (SPI modification issued)

**Motorola Electrostatic Discharge (ESD) System:** Implements the Motorola Electrostatic Discharge Control Manual as the single process for the protection of electrostatic sensitive components and equipment. The Motorola ESD Control Manual meets or exceeds the requirements of ANSI/EIA-625. (SPI modification issued)

**Federal Acquisition Streamline Act (FASA):** Incorporates updated FAR clauses IAW Section 10002 of FASA and the current version of the revised FAR parts that were affected by FASA. (SPI modification issued)

**Revised Data Rights Clauses:** Incorporates the new DFAR (Rights in Technical Data or Computer Software) clauses dated June and November 1995 in to existing contracts. (SPI modification issued)

**Software Development:** Proposes Motorola Standard Policy and Procedure 62 as the single process for the development of software on all Government contracts. This procedure meets or exceeds various Military Specifications and Industry Standards. (*In Process*)

**Use of Government Property:** Proposes prior approval to use Government owned property on a "Rent Free", non-interference basis on all Government contracts. Individual requests would be required for use on commercial contracts. (*To be submitted*)

**NORTHROP GRUMMAN -  
ELECTRONIC SENSORS & SYSTEMS DIVISION (ESSD)**  
(Formerly Westinghouse Electric Corporation - Baltimore, MD)

**Company Address:** Northrop Grumman Electronic Sensors & Systems Div. (ESSD)

**Company SPI/POC:** T.H. Hart, Northrop Grumman ESSD SPI Manager  
Phone/FAX: (410) 765-2381/-2764  
e-mail: hart.t.h-@postal.essd.northgrum.com

**Northrop Grumman Quality System:** Provides a single Quality System from the use of Military Specifications and Standards, i.e., Mil Std-9858A and Mil Std-45208 for use on all contracts at ESSD. The System is certified to ISO 9001 and ISO 9002 at the applicable locations.

**Configuration Management:** Replaces multiple military specifications for managing deliverable item configuration with a Northrop Grumman process tailored from EIA/IS-649. Compliance is monitored through self-assessments that are conducted as an integral part of the certified ANSI/ASQC Q9001 Management System.

**NORTHROP GRUMMAN SOUTHERN CALIFORNIA  
OPERATIONS**

**Company Address:** Northrop Grumman DSSD

**Company SPI/POC:** , Northrop Grumman DSSD SPI Manager  
Phone/FAX:  
e-mail:

**ADPE Reviews** Eliminates annual comprehensive ADPE reviews at NG Internal Information Service Division. Replaces them with Internal Reviews, PROCAS measures, and routine DACO reviews. Memo of Understanding (MOU) issued 9/25/96.

**Company Address:** Northrop Grumman Electronics & Systems Integration Div.,  
Combat Support Systems-West (NG ESID-CSS-W)

**Company SPI/POC:** , Northrop Grumman ESID SPI Manager  
Phone/FAX:  
e-mail:

**ISO 9000** This Common Process Initiative submitted by NG/ESID/CSS-W replaces existing Quality specifications within existing government contracts with only one quality system, the international/commercial specification, ISO-9001.



**Company Address:** Northrop Grumman Military Aircraft Systems Div. (NG MASD)  
P. O. Box 5032, 2301 West 120th Street, Hawthorne, CA 90251

**Company SPI/POC:** , NG MASD SPI Manager  
Phone/FAX: (310) 942-6688  
e-mail:

**Government Property Management - Commercializing the Management of USG Assets under \$1500** Provides for the use of commercial practices for the control, physical inventory, reporting and disposition of identified USG property with individual item values of less than \$1500.

**Government Property Management - Reduced/Consolidated Property System Oversight** Achieves a reduction in duplicate efforts associated with established USG Property audit/oversight requirements.

**Contract Close-outs** Replaces existing process with a streamlined process that expedites the administrative effort to close completed contracts. This process change still complies with the FAR 4.804 requirements, but it is expected to reduced delinquent contracts closures and contract closure unbillables.

**Common Spares Pricing Proposal Process** Standardizes the proposal content and submittal criteria for spares requirements with a value below \$500,000. Allows common approach and documentation to be used on all programs.

**Streamlined Spares Pricing and Ordering Process** Allows customers to place priced orders for spares requirements in a streamlined, expedited manner through the use of a “living catalog”.

# PRATT & WHITNEY

**Company Address:** Pratt & Whitney, West Palm Beach, FL  
**Company SPI/POC:** Mark Wheaton, P&W GESP SPI Manager  
Phone/FAX: (561)-796-4238/-6111  
e-mail: wheatomd@pwfl.com

**Authorize Use of Annual Representations, Certifications and Other Statements of Offerors or Quoters:** In the context of sealed bidding, FAR 14.213 discusses annual submission of representations and certifications as an alternative to submission with each solicitation. This paper recommends insertion of the language from FAR 14.213, Annual Submission of Representations and Certifications, into FAR Part 15, specifically FAR 15.407, Solicitation Provisions, for negotiated procurements.

**Eliminate Need for Separate Certifications from Suppliers:** This paper eliminates the requirement for the prime contractor to obtain and file subcontractor certifications for FAR 52.223-1 (Clean Air and Water), FAR 52.203-11 (Payments to Influence Certain Federal Transactions), FAR 52.222-21 (Nonsegregated Facilities), FAR 52.222-25 (Affirmative Action), FAR 52.226 (Equal Opportunity) and FAR Part 30 (Cost Accounting Standards). The “process” used to comply with the FAR to request, obtain and file certifications would be eliminated. Supplier acknowledgment of purchase orders containing the FAR provisions would constitute certification.

**Eliminate Technical Data Conformity Certification:** DFARS 252.227-7036, “Certification of Technical Data Conformity”, requires that the contractor submit a written certification each time it delivers technical data under a prime contract. This paper recommends that this DFARS provision be deleted in its entirety because the contract itself already requires that all items delivered to the Government be complete, accurate and conform to all the contract requirements.

**Eliminate Notification/Consent to Place Subcontracts:** This paper eliminates the requirement for ACO consent for technology (experimental, developmental and research work) subcontracts. The obligation for consent would not be required if the contractor has an approved purchasing system. This is consistent with the treatment of other subcontracts under FAR 44.201-2.

**Reduced Contract Financial Oversight and Reporting:** The proposed process is to change from monthly to quarterly reporting (Contract Funds Status Report (CFSR) and Cost/Schedule Status Report (C/SSR)).

**MID-STD-1567A Work Measurement:** This paper proposes the removal of MIL-STD-1567A (including current tailored wording), and the associated Data Items from all military contracts without replacement. P&W proposes that 1567 be replaced with an internally developed work measurement program.

# **ROCKWELL INTERNATIONAL - COLLINS AVIONICS & COMMUNICATIONS DIV. (CACD)**

**Company Address:** Rockwell International Corporation - Collins Avionics & Communications Division (CACD), Cedar Rapids, IA

**Company SPI/POC:** Wes Wilkey, CACD Quality Assurance Team Leader  
Phone/FAX: (319) 295-2889/-1121  
e-mail: [wwwilkey@collins.rockwell.com](mailto:wwwilkey@collins.rockwell.com)

**Adoption of ISO-9001 as Common Quality System:** CACD proposes the adoption of ISO-9001 1994 version as a Single Quality System at CACD, replacing MIL-Q-9858A, Federal Aviation Regulations (FAR) Part 21, and MIL-I-45208. Quality system compliance to ISO-9001 will be assured through use of a robust internal audit program and validated by an accredited certification agency. Certification will be maintained through periodic assessments by the certification agency.

**Proposal for Adoption of a Single Environmental Stress Screening Plan:** Currently there are a multitude of ESS requirements called out in various customer approved documents such as equipment specifications and final acceptance test documents. There are many guidance documents used by the government and CACD to define ESS requirements. It is proposed that all CACD equipment use the newly developed “Environmental Stress Screening (ESS) Plan for CACD Production Equipment” as a basis for developing and maintaining the ESS process.

**Proposal for the Processing of Certain Rated Orders Under DPAS:** Currently we are required to issue separate POs for the same part number if the requirements are mixed: rated and unrated. This SPI is to enable us to consolidate these requirements, reduce our PO volume and experience administrative savings.

**Subcontracts for Commercial Items:** FASA, Federal Acquisition and Streamlining Act, authorizes contractors to reduce the flowdowns for commercial items and components for contracts issued after October 1, 1995. However, CACD has contracts which were issued prior to this date. This SPI allows us to flowdown the reduced Terms and Conditions where appropriate.

**Adoption of a Single Process for Workmanship Criteria and Standards:** Collins Avionics & Communications Division's (CACD) Workmanship Standards Manual currently incorporates CACD-developed acceptance criteria as well as acceptance criteria required by MIL-STD-454, MIL-P-28809A, MIL-C-28809B and MIL-STD-2000A. The Workmanship Standards Manual, with three levels of workmanship acceptance criteria based on external requirements (MIL SPECS) will be consolidated to two levels that will be based on product performance needs. The two levels will address both a highly rigorous performance environment and a general level performance environment.

**Calibration Control System Requirements:** The purpose of the block change is to record the alignment of Collins Avionics & Communications Division's calibration control system requirements with ANSI/NCSL Standard Z540-1, American National Standard for Calibration - Calibration Laboratories and Measuring and Test Equipment - General Requirements. Prior to this agreement, the calibration control system embodied the key quality system requirements of MIL-STD-45662A. This MIL-STD was canceled per notification dated February 27, 1995. Internal

audit reports and other metrics used to monitor results and determine calibration system performance will be made available to the Government.

## **ROCKWELL INTERNATIONAL - COMMUNICATIONS SYSTEMS DIVISION (CSD)**

**Company Address:** Rockwell International Communications Systems Division (CSD)

**Company SPI/POC:** K. P. Sweet, Rockwell CSD SPI Manager  
Phone/FAX: (216) 773-4750/-3398  
e-mail: kenneth\_sweet@comsys.rockwell.com

**CSD Quality System:** ISO 9001, 1994 revision, is incorporated as the single Quality System at CSD replacing MIL-Q-9858 (all revisions) "Quality Program Requirements" and MIL-I-45208 (all revisions) "Inspection Program Requirements".

**Defense Finance and Accounting Service (DFAS) Direct Voucher Submission:** Allows direct voucher submission to DFAS without approval by the Defense Contract Audit Agency (DCAA). Process conversion is based on DCAA recognition of the adequacy of CSD Financial/Accounting systems for producing vouchers to their criteria (does not include first and final vouchers).

**Property Deviation:** Provides a Class Deviation to FAR Part 45 which reduces the current property recordkeeping for location changes and periodic physical inventory requirements for low value property, i.e., Special Tooling, Special Test Equipment, and Plant Equipment with an acquisition cost of \$1500 or less (except for sensitive property) and permits the contractor to defer reporting of loss, damage or destruction of low value property until contract termination or completion.

**Printed Circuit Board Design:** Replaces Mil-Std-275, Printed Wiring for Electronic Equipment, with The Institute for Interconnecting and Packaging Electronic Circuits (IPC) standard IPC-D-275, Design Standard for Printed Boards and Rigid Printed Board Assemblies, ("Class 3 level design requirements) as the single process for design of Printed Circuit Boards at CSD.

**Printed Circuit Board Fabrication:** Replaces Mil-P-55110, Rigid Board Qualification and Performance Specification, with The Institute for Interconnecting and Packaging Electronic Circuits (IPC) standard IPC-A-600, Acceptability of Printed Boards, ("Class 3 level requirements) as the single process for fabrication of Printed Circuit Boards at CSD.

### **Comprehensive Small Business Subcontracting Plan**

Allows the Rockwell CSD to substitute its approved FY1997 *Comprehensive Small Business (SB)*, *Small Disadvantaged Business(SDB)*, and *Woman-Owned Small Business(WOSB) Subcontracting Plan* for individual subcontracting plans in contracts which require them. Done in accordance with Eleanor Spector July 31, 1996 letter, Subject: *Test Program for Negotiation of Comprehensive Subcontracting Plans*.

## **RAYTHEON E-SYSTEMS, WACO**

(formerly Chrysler Technologies Airborne Systems, Inc.)

**Company Address:** Raytheon E-Systems, Waco, TX  
**Company SPI/POC:** Steve Renner, Manager of Contracts  
Phone/FAX: (817)867-4204/-4230  
e-mail: steve\_renner@ctas.com

### **Defense Finance and Accounting Service (DFAS) Direct Submission of Public Vouchers:**

Allows direct submission of vouchers to DFAS without approval by the Defense Contract Audit Agency (DCAA). Process conversion was based on DCAA determination of the adequacy of Raytheon Waco's accounting, billing, and labor charging systems plus extensive prior history of adequate billings. (Does not include first and last vouchers.) (block change modification has been issued)

**Incorporation of ISO 9001:** Raytheon E-Systems Waco is third-party ISO 9001 qualified and DCMC certified. The block change modification substitutes ISO 9001 for MIL-Q-9858A, MIL-I-45208, MIL-STD-1520, and MIL-STD-45662. (block change modification has been issued)

## **SOLADYNE, A METRIX COMPANY**

**Company Address:** Soladyne,  
**Company SPI/POC:** Dale Reed, General Manager  
Phone/FAX: (619) 874-2725/-9105  
e-mail: dale.reed@merix.com

### **Manufacture/Fabrication of Microwave Frequency Printed Circuit Boards for Wireless**

**Applications:** Replaces the requirement for producing and certifying military printed wiring boards to MIL-P-55110. Involves a single acceptance criteria and testing set for high frequency, high reliability printed wiring boards based on IPC-HF-318, an industry wide specification including best commercial practices on high performance laminates.

# TEXAS INSTRUMENTS DEFENSE SYSTEMS & ELECTRONICS

**Company Address:** Texas Instruments Defense Systems & Electronics (TI DS&E), TX

**Company SPI/POC:** Dave McDearmont, TI DS&E SPI Contact  
Phone/FAX: (972) 927-1720/-1669  
e-mail: dmcd@ti.com

**DS&E Quality System.** Replaced Mil-Q-9858 and Mil-I-45208 with TI DSE's approved implementation of ISO 9001. SPI modification completed 10/13/95.

**Common Process Factory.** Standardized the eight most significant processes for electronic assembly by replacing various and all revisions of 19 government specifications and standards with the common processes defined in TI Standard Procedure 14-21.

**Quality System.** Common process specification is ISO 9001.

**Inspection.** Common process specifications are ISO 9001 and ANSI-Z1.4.

**Workmanship and Quality Standards.** Common process specification is IPC-A-610.

**Solder.** Common process specification is ANSI/J-STD-001 with a process control plan that is documented in TI drawings.

**Calibration.** Common process is ISO 9001 and an internal TI Standard Procedure.

**Factory Environment.** Common Process is documented in a TI drawing.

**Conformal Coat.** Common process specification is ANSI/J-STD-001.

**Electrostatic Discharge Protection.** Common process specification is ANSI/EIA-625.

TI's subcontractors or suppliers may be given permission by TI to substitute the processes of TI Standard Procedure 14-21 or with TI's approval may substitute another appropriate specification, standard, or procedure. The 19 government specifications and standards that were replaced by SPI modification completed on 4/4/96 are listed below:

AR		92	Navy Supplement to Mil-Q-9858
Mil	STD	105	Attribute Inspection Sampling Procedure/Tables
Mil	STD	275	Printed Wiring for Electronic Equipment
Mil	STD	454	General Requirements for Electronic Equipment
Mil	STD	1235	Single/Multilevel Attribute Inspection Sample
Mil	STD	1520	Corrective Action and Disposition System
Mil	STD	1686	Electrostatic Discharge Control Program
Mil	STD	1695	Minimum Standards for Working Environment
Mil	STD	2000	Standard Requirements for Soldering Equipment
Mil	STD	2076	Test Compatibility with Automatic Test Equipment
Mil	W	5088	Wiring, Aerospace Vehicle
Mil	E	5400	Specification, Aerospace Equipment
Mil	Q	9858	Quality Program Requirements
Mil	T	28800	Test Equipment, General Spec for
Mil	C	28809	Circuit Card Assemblies, Rigid, Flex
Mil	I	45208	Inspection System Requirements
Mil	STD	45662	Calibration System Requirements
Mil	I	46058	Electrical Insulating Compound
NAVMAT	P	4855-1	Power Supply Reliability

**Alternative Coatings.** Replaced four Mil Spec coating specifications with TI internal specifications which allow the use of environmentally friendly materials.  
SPI modification completed on 4/4/96.

**Performance Based Coatings.** Replaces any Mil Spec paint or primer with a substitute material that meets the JGAPP Joint Test Protocol performance requirements.  
SPI concept paper submitted.